

## Review Questions

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### Multiple-Choice Questions

1. A complex community of plants, animals, and microorganisms linked by interacting energy and nutrient flows is called a(n)
  - (A) atmosphere
  - (B) ecosystem
  - (C) niche
  - (D) suburb
  - (E) species
2. The world's oceans make up what percent of the planet's biosphere?
  - (A) 27%
  - (B) 44%
  - (C) 62%
  - (D) 75%
  - (E) 99%
3. Which diverse ecosystem absorbs high flow and releases water slowly?
  - (A) High plains
  - (B) Wetlands
  - (C) Arctic
  - (D) Rocky Mountains
  - (E) Old-growth forest
4. Madagascar and the Indian Ocean islands, the Philippines, Sundaland, the Atlantic Forest, and the Caribbean are all considered
  - (A) hotspots
  - (B) expensive vacation spots
  - (C) sustainable use areas
  - (D) arid regions
  - (E) mountainous
5. Aircraft, high-altitude balloons, and satellites are all used in
  - (A) birthday parties
  - (B) field testing
  - (C) remote sensing
  - (D) acrobatic air shows
  - (E) high school science labs
6. The vertical range that contains the biosphere is roughly
  - (A) 1,000 meters high
  - (B) 5,000 meters high
  - (C) 10,000 meters high
  - (D) 20,000 meters high
  - (E) 40,000 meters high
7. When a species like the dodo bird becomes extinct, it is said to be
  - (A) in remission
  - (B) hibernating for the winter
  - (C) not important to the ecosystem
  - (D) gone for 10 years and then returns
  - (E) gone forever
8. The total area in which a plant, animal, insect, or other organism travels in its lifetime determines its
  - (A) life span
  - (B) range
  - (C) personality type
  - (D) itinerary
  - (E) habitat
9. ASTER information is used to draw detailed maps of land surface temperature, elevation, and
  - (A) salt flats
  - (B) mountain algae populations
  - (C) reflectance
  - (D) honeybee populations
  - (E) shipping lanes
10. Adjacent habitats have overlapping boundaries called
  - (A) wetlands
  - (B) topography
  - (C) ecological succession
  - (D) ecotones
  - (E) secondary succession

11. Over time, a previously untouched area like a volcanic flow will be populated by different species creating soil, cover, shade, and food resulting in a(n)
- (A) primary succession of development
  - (B) secondary succession of development
  - (C) tertiary succession of development
  - (D) overcrowded ecosystem
  - (E) ecotone
12. A hotspot is an ecological region that has lost
- (A) 10% of its original habitat
  - (B) 20% of its original habitat
  - (C) 45% of its original habitat
  - (D) 60% of its original habitat
  - (E) over 70% of its original habitat
13. The most important factor currently affecting many species is
- (A) loss of habitat
  - (B) predation
  - (C) food supply
  - (D) climate
  - (E) disease
14. The use of resources in a manner which protects a species or environment without causing long-term loss is known as
- (A) evolutionary use
  - (B) clear cutting
  - (C) sustainable use
  - (D) extinction
  - (E) speciation
15. When no two species can fill the same niche at the same time and the weaker species must fill a smaller niche, relocate, or die, it is known as
- (A) survival of the fittest
  - (B) Gause's principle
  - (C) the conservation of species
  - (D) a keystone species
  - (E) climax succession
16. When a species' numbers drop continuously because of habitat destruction, the species is said to be
- (A) extinct
  - (B) poor predators
  - (C) protected
  - (D) not evolutionarily hearty
  - (E) endangered
17. Mutualism is a type of symbiosis where
- (A) neither species benefits
  - (B) both species benefit
  - (C) one species benefits and one is unaffected
  - (D) one species is harmed and one benefits
  - (E) both species are harmed
18. When a species has no competitive limitations, it has a
- (A) realized niche
  - (B) developed niche
  - (C) fundamental niche
  - (D) successive niche
  - (E) population overshoot
19. When an ecosystem reaches its final stage of balanced species development, it is called a(n)
- (A) climax community
  - (B) population
  - (C) pioneer species
  - (D) initial niche
  - (E) extinct zone